

Andrea Bellelli

List of Publications by Year in descending order

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74
papers

2,120
citations

218677

26
h-index

243625

44
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74
docs citations

74
times ranked

2934
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhibition of <i>Schistosoma mansoni</i> Thioredoxin-glutathione Reductase by Auranofin. <i>Journal of Biological Chemistry</i> , 2009, 284, 28977-28985.	3.4	184
2	Gold-nanoparticles coated with the antimicrobial peptide esculentin-1a(1-21)NH ₂ as a reliable strategy for antipseudomonal drugs. <i>Acta Biomaterialia</i> , 2017, 47, 170-181.	8.3	135
3	Thioredoxin Reductase and its Inhibitors. <i>Current Protein and Peptide Science</i> , 2014, 15, 621-646.	1.4	111
4	Demonstration of Long-Range Interactions in a PDZ Domain by NMR, Kinetics, and Protein Engineering. <i>Structure</i> , 2006, 14, 1801-1809.	3.3	103
5	Moonlighting by Different Stressors: Crystal Structure of the Chaperone Species of a 2-Cys Peroxiredoxin. <i>Structure</i> , 2012, 20, 429-439.	3.3	102
6	Modulation of mitochondrial respiration by nitric oxide: investigation by single cell fluorescence microscopy. <i>FASEB Journal</i> , 1999, 13, 191-197.	0.5	71
7	The how, when, and why of the aging signals appearing on the human erythrocyte membrane: an atomic force microscopy study of surface roughness. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2010, 6, 760-768.	3.3	68
8	Glutathione reductase and thioredoxin reductase at the crossroad: The structure of <i>Schistosoma mansoni</i> thioredoxin glutathione reductase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 72, 936-945.	2.6	63
9	Mapping the Catalytic Cycle of <i>Schistosoma mansoni</i> Thioredoxin Glutathione Reductase by X-ray Crystallography. <i>Journal of Biological Chemistry</i> , 2010, 285, 32557-32567.	3.4	63
10	The Unusual Stability of Saporin, a Candidate for the Synthesis of Immunotoxins. <i>Biochemical and Biophysical Research Communications</i> , 1997, 234, 129-132.	2.1	62
11	Fast-reacting Thiols in Rat Hemoglobins Can Intercept Damaging Species in Erythrocytes More Efficiently Than Glutathione. <i>Journal of Biological Chemistry</i> , 1998, 273, 19198-19206.	3.4	60
12	A novel thermostable hemoglobin from the actinobacterium <i>Thermobifida fusca</i> . <i>FEBS Journal</i> , 2005, 272, 4189-4201.	4.7	48
13	On the mechanism and rate of gold incorporation into thiol-dependent flavoreductases. <i>Journal of Inorganic Biochemistry</i> , 2012, 108, 105-111.	3.5	48
14	Insights into the Catalytic Mechanism of Glutathione S-Transferase: The Lesson from <i>Schistosoma haematobium</i> . <i>Structure</i> , 2005, 13, 1241-1246.	3.3	46
15	The Allosteric Properties of Hemoglobin: Insights from Natural and Site Directed Mutants. <i>Current Protein and Peptide Science</i> , 2006, 7, 17-45.	1.4	46
16	Mutagenesis of nitrite reductase from <i>Pseudomonas aeruginosa</i> : tyrosine-10 in the c heme domain is not involved in catalysis. <i>FEBS Letters</i> , 1997, 412, 365-369.	2.8	39
17	Mouse spermine oxidase: a model of the catalytic cycle and its inhibition by N,N1-bis(2,3-butadienyl)-1,4-butanediamine. <i>Biochemical and Biophysical Research Communications</i> , 2004, 322, 1-8.	2.1	39
18	Evidence for two oxygen-linked binding sites for polyanions in dromedary hemoglobin. <i>FEBS Journal</i> , 1985, 150, 387-393.	0.2	36

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19	Hemoglobin and Cooperativity: Experiments and Theories. <i>Current Protein and Peptide Science</i> , 2010, 11, 2-36.	1.4	34
20	Cul-semiquinone radical species in plant copper-amine oxidases. <i>FEBS Letters</i> , 1999, 453, 1-5.	2.8	33
21	The oxidation and reduction reactions of bovine serum amine oxidase. <i>FEBS Journal</i> , 2000, 267, 3264-3269.	0.2	33
22	The Reductive and Oxidative Half-Reactions and the Role of Copper Ions in Plant and Mammalian Copper Amine Oxidases. <i>European Journal of Inorganic Chemistry</i> , 2001, 2001, 35-42.	2.0	31
23	Hemoglobin allostery: Variations on the theme. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 1262-1272.	1.0	31
24	Combining crystallography and molecular dynamics: The case of <i>Schistosoma mansoni</i> phospholipid glutathione peroxidase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 259-270.	2.6	30
25	Fast Coordination Changes in Cytochrome c Do Not Necessarily Imply Folding. <i>Journal of Biological Chemistry</i> , 2001, 276, 41073-41078.	3.4	29
26	The Three-dimensional Structure of Two Redox States of Cyclophilin A from <i>Schistosoma mansoni</i> . <i>Journal of Biological Chemistry</i> , 2007, 282, 24851-24857.	3.4	29
27	A ribosomal protein is specifically recognized by saporin, a plant toxin which inhibits protein synthesis. <i>FEBS Letters</i> , 1992, 298, 145-148.	2.8	27
28	Modulation of ligand binding in engineered human hemoglobin distal pocket. <i>Journal of Molecular Biology</i> , 1999, 290, 515-524.	4.2	27
29	Alteration of T-state binding properties of naturally glycosylated hemoglobin, HbA1c. <i>Journal of Molecular Biology</i> , 1988, 203, 233-239.	4.2	26
30	Crystal structure of <i>Plasmodium falciparum</i> thioredoxin reductase, a validated drug target. <i>Biochemical and Biophysical Research Communications</i> , 2012, 425, 806-811.	2.1	25
31	Fragment-Based Discovery of a Regulatory Site in Thioredoxin Glutathione Reductase Acting as a "Doorstop" for NADPH Entry. <i>ACS Chemical Biology</i> , 2018, 13, 2190-2202.	3.4	25
32	Simultaneous static and dynamic light scattering approach to the characterization of the different fibrin gel structures occurring by changing chloride concentration. <i>Applied Physics Letters</i> , 2005, 86, 183901.	3.3	24
33	Typical 2-Cys peroxiredoxins in human parasites: Several physiological roles for a potential chemotherapy target. <i>Molecular and Biochemical Parasitology</i> , 2016, 206, 2-12.	1.1	24
34	Structural and functional characterization of <i>Schistosoma mansoni</i> Thioredoxin. <i>Protein Science</i> , 2011, 20, 1069-1076.	7.6	23
35	Probing the $\beta 1 \beta 2$ Interface of Human Hemoglobin by Mutagenesis. <i>Journal of Biological Chemistry</i> , 1996, 271, 12472-12480.	3.4	21
36	Probing the Mechanism of GSH Activation in <i>Schistosoma haematobium</i> Glutathione-S-transferase by Site-directed Mutagenesis and X-ray Crystallography. <i>Journal of Molecular Biology</i> , 2006, 360, 678-689.	4.2	20

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37	[5] Optical measurements of quaternary structural changes in hemoglobin. <i>Methods in Enzymology</i> , 1994, 232, 56-71.	1.0	19
38	Molecular mode of interaction of plant amine oxidase with the mechanism-based inhibitor 2-butyne-1,4-diamine. <i>FEBS Journal</i> , 2000, 267, 1423-1433.	0.2	19
39	Macromolecular Bases of Antischistosomal Therapy. <i>Current Topics in Medicinal Chemistry</i> , 2011, 11, 2012-2028.	2.1	19
40	One ring (or two) to hold them all “ on the structure and function of protein nanotubes. <i>FEBS Journal</i> , 2015, 282, 2827-2845.	4.7	19
41	Irreversible inhibition of pig kidney copper-containing amine oxidase by sodium and lithium ions. <i>FEBS Journal</i> , 2001, 268, 4686-4697.	0.2	16
42	Stabilization of the T-state of ferrous human adult and fetal hemoglobin by Ln(III) complexes: A thermodynamic study. <i>Journal of Inorganic Biochemistry</i> , 1998, 71, 37-43.	3.5	15
43	Proton Linkage for CO Binding and Redox Properties of Bovine Lactoperoxidase. <i>Biophysical Journal</i> , 2004, 86, 448-454.	0.5	15
44	Is there a root effect in Xenopus hemoglobin?. <i>FEBS Letters</i> , 1987, 221, 161-166.	2.8	14
45	On the problem of immunological detection of antigens in skeletal remains. <i>American Journal of Physical Anthropology</i> , 1991, 86, 429-432.	2.1	12
46	Nucleotide pyrophosphatase/phosphodiesterase from <i>Euphorbia characias</i> latex: Purification and characterization. <i>Plant Science</i> , 2009, 177, 636-642.	3.6	12
47	Hemoglobin Allostery: New Views on Old Players. <i>Journal of Molecular Biology</i> , 2013, 425, 1515-1526.	4.2	12
48	Hemoglobins from Wistar Rat.: Crystallization of Components and Intraerythrocytic Crystals. <i>FEBS Journal</i> , 1982, 129, 459-463.	0.2	11
49	Evolution of ruminant hemoglobins. Thermodynamic divergence of ox and buffalo hemoglobins. <i>FEBS Journal</i> , 1992, 204, 509-513.	0.2	10
50	Intracellular dynamics of ricin followed by fluorescence microscopy on living cells reveals a rapid accumulation of the dimeric toxin in the Golgi apparatus. <i>FEBS Letters</i> , 1994, 344, 99-104.	2.8	10
51	Ectopic suicide inhibition of thioredoxin glutathione reductase. <i>Free Radical Biology and Medicine</i> , 2020, 147, 200-211.	2.9	10
52	Hemoglobin allostery and pharmacology. <i>Molecular Aspects of Medicine</i> , 2022, 84, 101037.	6.4	10
53	Transient Kinetics of Polyamine Oxidase from <i>Zea mays</i> L. <i>Archives of Biochemistry and Biophysics</i> , 1997, 343, 146-148.	3.0	9
54	Taking Advantage of the Morpheine Behavior of Peroxiredoxin in Bionanotechnology. <i>Bioconjugate Chemistry</i> , 2021, 32, 43-62.	3.6	8

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55	Cooperative ligand binding of crosslinked hemoglobins at very high temperatures. <i>Journal of Molecular Biology</i> , 1990, 213, 571-574.	4.2	7
56	On the Measurement of Cooperativity and the Physico-Chemical Meaning of the Hill Coefficient. <i>Current Protein and Peptide Science</i> , 2019, 20, 861-872.	1.4	7
57	A saporin-insulin conjugate: Synthesis and biochemical characterization. <i>Natural Toxins</i> , 1996, 4, 156-162.	1.0	6
58	Selenocysteine robustness versus cysteine versatility: a hypothesis on the evolution of the moonlighting behaviour of peroxiredoxins. <i>Biochemical Society Transactions</i> , 2014, 42, 1768-1772.	3.4	6
59	Approaches to the Engineering of Hemoglobin-Based Oxygen Carriers. <i>Transfusion Alternatives in Transfusion Medicine</i> , 2004, 5, 516-520.	0.2	5
60	Nitric oxide, substrate of <i>Euphorbia characias</i> peroxidase, switches off the CN ⁺ inhibitory effect. <i>FEBS Open Bio</i> , 2012, 2, 305-312.	2.3	5
61	Control of Oxygen Affinity in Mammalian Hemoglobins: Implications for a System Biology Description of the Respiratory Properties of the Red Blood Cell. <i>Current Protein and Peptide Science</i> , 2020, 21, 553-572.	1.4	5
62	Allosteric modulation of <i>Euphorbia</i> peroxidase by nickel ions. <i>FEBS Journal</i> , 2008, 275, 1201-1212.	4.7	4
63	<i>Lathyrus cicera</i> copper amine oxidase reactions with tryptamine. <i>Journal of Inorganic Biochemistry</i> , 2012, 109, 33-39.	3.5	4
64	Apixaban Interacts with Haemoglobin: Effects on Its Plasma Levels. <i>Thrombosis and Haemostasis</i> , 2018, 118, 1701-1712.	3.4	4
65	Non-Allosteric Cooperativity in Hemoglobin. <i>Current Protein and Peptide Science</i> , 2018, 19, 573-588.	1.4	4
66	Effect of aromatic isothiocyanates on the functional properties of human hemoglobin. <i>Biophysical Chemistry</i> , 1990, 37, 293-302.	2.8	2
67	Studies on <i>Pseudomonas aeruginosa</i> nitrite reductase: The association and dissociation reactions of the d1-heme. <i>Israel Journal of Chemistry</i> , 2000, 40, 27-33.	2.3	2
68	Control of the active site structure of giant bilayer hemoglobin from the Annelid <i>Eisenia foetida</i> using hierarchic assemblies. <i>Applied Physics Letters</i> , 2005, 87, 233901.	3.3	2
69	Ligand-Linked Association-Dissociation in Transport Proteins and Hormone Receptors. <i>Current Protein and Peptide Science</i> , 2020, 21, 993-1010.	1.4	1
70	Aminoglycosides as substrates and inhibitors of peroxidases: a possible role of these antibiotics against myeloperoxidase-dependent cytotoxicity. <i>The Protein Journal</i> , 2002, 21, 97-104.	1.1	0
71	Permanent training in medicine: the view point of a biochemist. <i>Italian Journal of Biochemistry</i> , 2003, 52, 2-5.	0.3	0
72	On the proposed reformation of university professorship in Italy. <i>Italian Journal of Biochemistry</i> , 2003, 52, 63-6.	0.3	0

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73	Should we teach homeopathy to our medical students?. Italian Journal of Biochemistry, 2004, 53, 125-9.	0.3	0
74	Why are polygenic hereditary diseases so difficult to investigate? An exercise of theoretical enzymology. Italian Journal of Biochemistry, 2005, 54, 229-31.	0.3	0